

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	dynamic adj data adj exchange and cti and topics and commands and (map or mappable) and common	US-PGPUB; USPAT	OR	OFF	2005/03/04 20:01

USPTO PATENT FULL-TEXT AND IMAGE DATABASE[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[Bottom](#)[View Cart](#)*Searching 1976 to present...*

Results of Search in 1976 to present db for:
("dynamic data exchange" AND cti): 16 patents.

Hits 1 through 16 out of 16[Jump To](#)[Refine Search](#)

PAT. NO.	Title
1 6,738,469	T Method and system for performing dialling of a telephone number supplied from a data store
2 6,668,286	T Method and system for coordinating data and voice communications via customer contact channel changing system over IP
3 6,393,115	T Method for detecting and processing information relevant to establishing a telephone connection in a CTI system and corresponding CTI system
4 6,333,928	T Integrated multimedia telecommunications server
5 6,311,231	T Method and system for coordinating data and voice communications via customer contract channel changing system using voice over IP
6 6,160,536	T Dwell time indication method and apparatus
7 6,058,163	T Method and system for monitoring call center service representatives
8 6,005,549	T User interface method and apparatus
9 5,995,948	T Correspondence and chargeback workstation
10 5,946,375	T Method and system for monitoring call center service representatives
11 5,884,032	T System for coordinating communications via customer contact channel changing system using call centre for setting up the call between customer and an available help agent
12 5,878,130	T Communications system and method for operating same
13 5,848,143	T Communications system using a central controller to control at least one network and agent system
14 5,655,015	T Computer-telephone integration system
15 5,655,014	T Switching device independent computer-telephone integration system
16 5,642,410	T Call processor for a computer telephone integration system

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((("dynamic data exchange" AND cti) AND topics) AND commands): 3 patents.

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Refine Search	"dynamic data exchange" and cti and topics and comm
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PAT. NO.	Title
1 6,160,536	[T] Dwell time indication method and apparatus
2 6,005,549	[T] User interface method and apparatus
3 5,995,948	[T] Correspondence and chargeback workstation

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((("dynamic data exchange" AND cti) AND topics) AND commands) AND (map OR mappable)): 2 patents.

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PAT. NO. Title

1 [6,160,536](#) [Dwell time indication method and apparatus](#)

2 [6,005,549](#) [User interface method and apparatus](#)

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(((((("dynamic data exchange" AND cti) AND topics) AND commands) AND (map OR mappable)) AND common): 2 patents.

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1 [6,160,536](#) [T](#) [Dwell time indication method and apparatus](#)

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1 [A theoretically motivated tool for automatically generating command aliases](#)

Sarah Nichols, Frank E. Ritter

May 1995 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: [html\(42.78 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

2 [Talking with an APL via DDE: teaching an old dog new tricks](#)

Steven J. Halasz, Andrei V. Kondrashev

September 1993 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 24 Issue 1

Full text available: [pdf\(785.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Shared variables and auxiliary processors are well-known techniques for connecting alien applications to APL. The use of APL in the PC windowing multitasking environment of MS Windows, which incorporates a messaging model for interprocess communications, requires some new approaches to the implementation of shared variable and auxiliary processor support. This paper presents a shared variable interface to MS Windows graphics written in Microsoft C and a simple charting package called TinyPlot wr ...

3 [Heraclitus: elevating deltas to be first-class citizens in a database programming language](#)

Shahram Ghandeharizadeh, Richard Hull, Dean Jacobs

September 1996 **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 3

Full text available: [pdf\(3.76 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditional database systems provide a user with the ability to query and manipulate one database state, namely the current database state. However, in several emerging applications, the ability to analyze "what-if" scenarios in order to reason about the impact of an update (before committing that update) is of paramount importance. Example applications include hypothetical database access, active database management systems, and version management, to name a few. The central th ...

Keywords: active databases, deltas, execution model for rule application, hypothetical access, hypothetical database state

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available:  [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

6 Navigation issues in hypertext: documenting complex hierarchies with HTML frames

Michael Priestley

October 1997 **Proceedings of the 15th annual international conference on Computer documentation**

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 4.2BSD and 4.3BSD as examples of the UNIX system

John S. Quarterman, Abraham Silberschatz, James L. Peterson

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available:  [pdf\(4.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

8 Document Formatting Systems: Survey, Concepts, and Issues

Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  [pdf\(5.36 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Conception, evolution, and application of functional programming languages

Paul Hudak

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3


Full text available:  [pdf\(5.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The foundations of functional programming languages are examined from both historical and technical perspectives. Their evolution is traced through several critical periods: early work on lambda calculus and combinatory calculus, Lisp, Iswim, FP, ML, and modern functional languages such as Miranda¹ and Haskell. The fundamental premises on which the functional programming methodology stands are critically analyzed with respect to philosophical, theoretical, and pragmatic concerns. ...

10 A component- and message-based architectural style for GUI software

Richard N. Taylor, Nenad Medvidovic, Kenneth M. Anderson, E. James Whitehead, Jason E. Robbins

April 1995 **Proceedings of the 17th international conference on Software engineering**

Full text available:  pdf(1.19 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



11 Programming Languages: Toward a general processor for programming languages

Mark I. Halpern

January 1968 **Communications of the ACM**, Volume 11 Issue 1

Full text available:  pdf(1.90 MB)

Additional Information: [full citation](#), [references](#), [citations](#)



Keywords: compiler writing system, compiler-compiler, general processor, general translator, macro instruction processor, meta compiler, meta language processor, meta language translator, meta processor, programming language processor, programming language translator, translator writing system

12 Notable computer networks

John S. Quarterman, Josiah C. Hoskins

October 1986 **Communications of the ACM**, Volume 29 Issue 10

Full text available:  pdf(4.66 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Computer networks are becoming more numerous and more diverse. Collectively, they constitute a worldwide metanetwork.



13 Verifying Security

Maureen Harris Cheheyli, Morrie Gasser, George A. Huff, Jonathan K. Millen

September 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3

Full text available:  pdf(4.68 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



14 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-art of graphic software packages

Computer Graphics staff

September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Full text available:  pdf(9.03 MB)

Additional Information: [full citation](#), [references](#)




15 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann


August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,




Volume 8 Issue 4

Full text available:  [pdf\(6.32 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

16 [Computing curricula 2001](#)September 2001 **Journal on Educational Resources in Computing (JERIC)**Full text available:  [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**17** [Geographic Data Processing](#)

George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2Full text available:  [pdf\(4.20 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18** [A declarative approach to optimize bulk loading into databases](#)


Sihem Amer-Yahia, Sophie Cluet

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2Full text available:  [pdf\(1.00 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Applications, such as warehouse maintenance, need to load large data volumes regularly. The efficiency of loading depends on the resources that are available at the source and at the target systems. Our work aims to understand the performance criteria that are involved in bulk loading data into a database and to devise tailored optimization strategies. Unlike commercial systems and previous research on the same topic, our approach follows the fundamental database principle of physical-logical ind ...

Keywords: Declarative bulk loading, algebra, recovery, side-effects**19** [Distributed operating systems](#)

Andrew S. Tanenbaum, Robbert Van Renesse


December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4Full text available:  [pdf\(5.49 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

20 [File servers for network-based distributed systems](#)

Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Full text available:  pdf(4.23 MB)

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21 [Dynamic Soundscape: mapping time to space for audio browsing](#)

Minoru Kobayashi, Chris Schmandt

March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(997.68 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: audio browsing, selective listening, simultaneous listening, spatial memory, spatialized audio

22 [IS '97: model curriculum and guidelines for undergraduate degree programs in information systems](#)

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available: pdf(7.24 MB)

Additional Information: [full citation](#), [citations](#)

23 [Interactive Editing Systems: Part I](#)

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(3.08 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

24 [On randomization in sequential and distributed algorithms](#)

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Full text available: pdf(8.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional

deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed— that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proofs ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

25 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young
March 1968 **Communications of the ACM**, Volume 11 Issue 3

Full text available:  [pdf\(6.63 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

26 Usability engineering turns 10

Keith A. Butler
January 1996 **interactions**, Volume 3 Issue 1

Full text available:  [pdf\(2.16 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)


27 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available:  [pdf\(2.91 MB\)](#) Additional Information: [full citation](#), [index terms](#)

28 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli
April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 2

Full text available:  [pdf\(385.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic systems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survey ...

29 New ideas for generic components in Ada

Richard Riehle

September 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 5

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The creation of reusable software components is an important part of modern software practice. Generic templates are one technique for designing these components. A generic template is a module containing algorithms which can operate on some class of data types where the specific data type is not known until later in the development process. Many languages, including Ada, support this technique. In Ada, generic templates must be type-safe at compile time. We examine some features of Ada which al ...

30 Two approaches to modularity: comparing the STOP approach with structured writing

Robert E. Horn

August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3

Full text available:  pdf(604.76 KB) Additional Information: [full citation](#), [index terms](#)

31 Office Information Systems and Computer Science

Clarence A. Ellis, Gary J. Nutt

January 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 1

Full text available:  pdf(2.87 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

32 Accessing hyperdocuments through interactive dynamic maps

Mountaz Zizi, Michel Beaudouin-Lafon

September 1994 **Proceedings of the 1994 ACM European conference on Hypermedia technology**

Full text available:  pdf(1.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a new navigation paradigm based on a spatial metaphor to help users access and navigate within large sets of documents. This metaphor is implemented by a computer artifact called an Interactive Dynamic Map (IDM). An IDM plays a role similar to the role of a real map with respect to physical space. Two types of IDMs are computed from the documents: Topic IDMs represent the semantic contents of a set of documents while Document IDMs visualize a subset of documents ...

Keywords: information retrieval, interaction paradigm, maps, navigation, visualization

33 Federated database systems for managing distributed, heterogeneous, and autonomous databases

Amit P. Sheth, James A. Larson

September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3


Full text available:  pdf(5.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A federated database system (FDBS) is a collection of cooperating database systems that are autonomous and possibly heterogeneous. In this paper, we define a reference architecture for distributed database management systems from system and schema viewpoints and show how various FDBS architectures can be developed. We then define a methodology for developing one of the popular architectures of an FDBS. Finally, we discuss critical issues related to developing and operating an FDBS.

34 Groupware concept mapping techniques

Rob Kremer, Brian R. Gaines

October 1994 **Proceedings of the 12th annual international conference on Systems documentation: technical communications at the great divide**

Full text available:  pdf(1.04 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Concept maps have been used in education, policy studies and the philosophy of science to provide a visual representation of knowledge structures and argument forms. They provide a complementary alternative to natural language as a means of communicating knowledge. In many disciplines various forms of concept map are already used as formal knowledge representation systems, for example: semantic networks in artificial intelligence, bond graphs in mechanical and electrical engineering, Petri ...

35 MAPA: a system for inducing and visualizing hierarchy in Websites

David Durand, Paul Kahn

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Full text available:  pdf(1.52 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

36 Special issue on ICML: Coupled clustering: a method for detecting structural correspondence

Zvika Marx, Ido Dagan, Joachim M. Buhmann, Eli Shamir

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available:  pdf(967.15 KB)


Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper proposes a new paradigm and a computational framework for revealing equivalencies (analogies) between sub-structures of distinct composite systems that are initially represented by unstructured data sets. For this purpose, we introduce and investigate a variant of traditional data clustering, termed *coupled clustering*, which outputs a configuration of corresponding subsets of two such representative sets. We apply our method to synthetic as well as textual data. Its achievement ...

37 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available:  pdf(4.87 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

38 Knowledge and representation: Convergence of knowledge management and E-learning: the GetSmart experience

Byron Marshall, Yiwen Zhang, Hsinchun Chen, Ann Lally, Rao Shen, Edward Fox, Lillian N. Cassel

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(949.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The National Science Digital Library (NSDL), launched in December 2002, is emerging as a center of innovation in digital libraries as applied to education. As a part of this extensive project, the GetSmart system was created to apply knowledge management techniques in a learning environment. The design of the system is based on an analysis of learning theory

and the information search process. Its key notion is the integration of search tools and curriculum support with concept mapping. More tha ...

39 OOPSLA onward! track: Acceptability-oriented computing



Martin Rinard

December 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 12

Full text available: [pdf\(446.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We discuss a new approach to the construction of software systems. Instead of attempting to build a system that is as free of errors as possible, the designer instead identifies key properties that the execution must satisfy to be acceptable to its users. Together, these properties define the *acceptability envelope* of the system: the region that it must stay within to remain acceptable. The developer then augments the system with a layered set of components, each of which enforces one of ...

Keywords: acceptability properties, monitoring, rectification, repair

40 Onward papers: Acceptability-oriented computing



Martin Rinard

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available: [pdf\(321.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We discuss a new approach to the construction of software systems. Instead of attempting to build a system that is as free of errors as possible, the designer instead identifies key properties that the execution must satisfy to be acceptable to its users. Together, these properties define the *acceptability envelope* of the system: the region that it must stay within to remain acceptable. The developer then augments the system with a layered set of components, each of which enforces one of ...

Keywords: acceptability properties, monitoring, rectification, repair

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41 [Query evaluation techniques for large databases](#)

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

42 [Embedding an interpreted language using higher-order functions and types](#)

Norman Ramsey

June 2003 **Proceedings of the 2003 workshop on Interpreters, Virtual Machines and Emulators**

Full text available: pdf(244.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Using an embedded, interpreted language to control a complicated application can have significant software-engineering benefits. But existing interpreters are designed for embedding into C code. To embed an interpreter into a different language requires a suitable API. Lua-ML is a new API that uses higher-order functions and types to simplify the use of an embedded interpreter. A typical application-program function can be added to a Lua-ML interpreter simply by describing the function's type.

43 [Data dissemination and pervasive computing: Semantically driven service interoperability for pervasive computing](#)

Declan O'Sullivan, David Lewis

September 2003 **Proceedings of the 3rd ACM international workshop on Data engineering for wireless and mobile access**

<http://portal.acm.org/results.cfm?query=%22dynamic%20data%20exchange%22%20and%20cti%20and%20t...> 3/4/05

Full text available:  pdf(179.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The common vision of pervasive computing environments requires a very large range of devices and software components to interoperate seamlessly. From the assumption that these devices and associated software permeate the fabric of everyday life, a massive increase looms in the number of software developers deploying functionality into pervasive computing environments. This poses a very large interoperability problem for which solutions reliant solely on interoperability standards will not scale. ...

Keywords: DAML-S, pervasive computing, semantic interoperability, service composition, topic maps

44 PIROL: a case study for multidimensional separation of concerns in software engineering environments

Stephan Herrmann, Mira Mezini

October 2000 **ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 35 Issue 10

Full text available:  pdf(441.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present our experience with applying multidimensional separation of concerns to a software engineering environment. By comparing two different designs of our system, we show the importance of separating integration issues from the implementation of the individual concerns. We present a model in which integration issues are encapsulated into rst--class connector objects and indicate how this facilitates the understandability, maintenance and evolution of the system. We identify ...

Keywords: component integration, domain—specific language, separation of concerns, software engineering environment

45 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available:  pdf(2.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

46 Geospatial mapping and navigation of the web

Kevin S. McCurley

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available:  pdf(1.06 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: browsers, geographic information systems, geospatial information retrieval, navigation

47 Using metalevel techniques in a flexible toolkit for CSCW applications

Paul Dourish

June 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2

Full text available:  [pdf\(292.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ideally, software toolkits for collaborative applications should provide generic, reusable components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications and the mechanics of group interaction present a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure, below the level at which toolkits typically offer control. This article describe ...

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

48 Hypertext paradigm in the field of information retrieval: a neural approach

Alain Lelu, Claire Francois

December 1993 **Proceedings of the ACM conference on Hypertext**

Full text available:  [pdf\(894.79 KB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: cluster analysis, graphic user interface, hypertext, information retrieval, neural networks

49 OBSERV—a prototyping language and environment

Shmuel Tyszberowicz, Amiram Yehudai

July 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1 Issue 3

Full text available:  [pdf\(2.64 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


The OBSERV methodology for software development is based on rapid construction of an executable specification, or prototype, of a systems, which may be examined and modified repeatedly to achieve the desired functionality. The objectives of OBSERV also include facilitating a smooth transition to a target system, and providing means for reusing specification, design, and code of systems and subsystems. We are particularly interested in handling embedded systems, which are likely to have conc ...

Keywords: CRUISE, OBSERV, browsers, concurrency, embedded systems, graphical user interface, interactive programming environments, logic programming, modeling with finite state machines, object-oriented approach, real time systems, simulator, software reuse, static checker

50 Mind your vocabulary: query mapping across heterogeneous information sources

Chen-Chuan K. Chang, Héctor García-Molina

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

Full text available:  pdf(1.67 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present a mechanism for translating constraint queries, i.e., Boolean expressions of constraints, across heterogeneous information sources. Integrating such systems is difficult in part because they use a wide range of constraints as the vocabulary for formulating queries. We describe algorithms that apply user-provided mapping rules to translate query constraints into ones that are understood and supported in another context, e.g. < ...

51 The design and implementation of hierarchical software systems with reusable components

Don Batory, Sean O'Malley

October 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1 Issue 4Full text available:  pdf(3.15 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale reuse, rely on open architecture software, and elevate the granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software building-blocks, software design

52 Terrain database interoperability issues in training with distributed interactive simulation

Guy A. Schiavone, S. Sureshchandran, Kenneth C. Hardis


July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3Full text available:  pdf(443.34 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, resulting in unrealistic simulation results or negative training, and a corresponding degradation of interoperability in a DIS simulation exercise. In the DIS community, this is known as the simulator terrain database (TDB) correlation problem. ...

Keywords: distributed interactive simulation, terrain databases

53 Same words, different meanings: are basic IS/IT concepts our self-imposed Tower of Babel?

Steven Alter

May 2000 **Communications of the AIS**Full text available:  pdf(349.97 KB)Additional Information: [full citation](#), [references](#), [citations](#)

54 Distributed environment: Narratives of space and time: visualization for distributed applications

Patrick J. Finnigan, Kelly A. Lyons

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(1.65 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Programmers of distributed applications face the challenge of building communicating processes (CP) in a complex, heterogeneous network with distributed data and services. The tools necessary to build these systems are emerging, but widespread acceptance will require effective use of visualization and user interface technologies to reduce complexity. In this paper, we outline a plan and describe some initial results for visualizing three aspects of distributed applications• X.500 [25) ...

Keywords: distributed systems, iconic programming, network management, visualization

55 Translator writing systems

Jerome Feldman, David Gries

February 1968 **Communications of the ACM**, Volume 11 Issue 2

Full text available:  pdf(4.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system

56 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

December 1998 **Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference on Integrating technology into computer science education**

Full text available:  pdf(107.98 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

57 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

October 1998 **ACM SIGCUE Outlook**, Volume 26 Issue 4

Full text available:  pdf(2.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

58

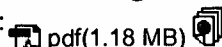
Domain-independent natural language interfaces: Problems in natural-language

interface to DBMS with examples from EUFID

Marjorie Templeton, John Burger

February 1983 **Proceedings of the first conference on Applied natural language processing**

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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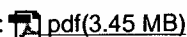
For five years the End-User Friendly Interface to Data management (EUFID) project team at System Development Corporation worked on the design and implementation of a Natural-Language Interface (NLI) system that was to be independent of both the application and the database management system. In this paper we describe application, natural-language and database management problems involved in NLI development, with specific reference to the EUFID system as an example.

59 Launching the new era

Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick

March 1993 **Communications of the ACM**, Volume 36 Issue 3

Full text available:

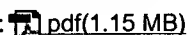


Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

60 PRIME—toward process-integrated modeling environments: 1

Klaus Pohl, Klaus Weidenhaupt, Ralf Dömges, Peter Haumer, Matthias Jarke, Ralf Klamma
October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 8 Issue 4

Full text available:



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Research in process-centered environments (PCEs) has focused on project management support and has neglected method guidance for the engineers performing the (software) engineering process. It has been dominated by the search for suitable process-modeling languages and enactment mechanisms. The consequences of process orientation on the computer-based engineering environments, i.e., the interactive tools used during process performance, have been studied much less. In this article, we prese ...

Keywords: PRIME, method guidance, process modeling, process-centered environments, process-integrated environments, process-sensitive tools, tool integration, tool modeling

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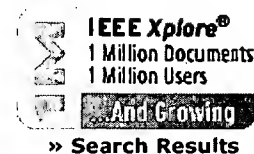
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Randall, R.; Bynum, J.R.;

 Nuclear Science Symposium and Medical Imaging Conference, 1992., Conference Record of the 1992 IEEE , 25-31 Oct. 1992
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O'Connor, K.B.R.; Stewart, W.R.; Ware, J.A.;

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Electronics Manufacturing Technology Symposium, 1994. 'Low-Cost Manufacturing

Technologies for Tomorrow's Global Economy'. Proceedings 1994 IEMT Symposium., Sixteenth IEEE/CPMT International , 12-14 Sept. 1994
Pages:304 - 308 vol.1

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5 Instrument control enhancements using Microsoft Windows 3.0

Stanislawski, W.;

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Pages:239 - 242

[\[Abstract\]](#) [\[PDF Full-Text \(296 KB\)\]](#) [IEEE CNF](#)

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Mobsby, C.; Newton, D.; Pymm, M.; Youern, K.;

Computer Modelling and Simulation of Radar Systems, IEE Colloquium on , 24 Feb 1993

Pages:2/1 - 2/4

[\[Abstract\]](#) [\[PDF Full-Text \(208 KB\)\]](#) [IEE CNF](#)

7 A test platform implementing SPC in a low-volume, high-mix test department

Stanley, D.L.; Duncan, R.F.; Smith, G.W.;

AUTOTESTCON '97. 1997 IEEE Autotestcon Proceedings , 22-25 Sept. 1997

Pages:629 - 638

[\[Abstract\]](#) [\[PDF Full-Text \(892 KB\)\]](#) [IEEE CNF](#)

8 An alternate approach for real-time scheduling

Dai, Y.X.; Chen, B.S.;

Industrial Technology, 1996. (ICIT '96), Proceedings of The IEEE International Conference on , 2-6 Dec. 1996

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[\[Abstract\]](#) [\[PDF Full-Text \(424 KB\)\]](#) [IEEE CNF](#)

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Zhao Yingkai; Wang Yiling;

Intelligent Control and Automation, 2002. Proceedings of the 4th World Congress on , Volume: 1 , 10-14 June 2002

Pages:786 - 789 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(277 KB\)\]](#) [IEEE CNF](#)

10 Leveraging COTS in an open system ATS architecture

Kulig, D.M.;

AUTOTESTCON '95. 'Systems Readiness: Test Technology for the 21st Century'. Conference Record , 8-10 Aug. 1995

Pages:294 - 299

[\[Abstract\]](#) [\[PDF Full-Text \(448 KB\)\]](#) IEEE CNF

11 Document markup for open information interchange

Bryan, M.;

Adding Value to Documents with Markup Languages, IEE Colloquium on , 1994

Pages:3/1 - 3/3

[\[Abstract\]](#) [\[PDF Full-Text \(140 KB\)\]](#) IEEE CNF

12 Data interoperability between CACSD and CASE tools using the CDIF family of standards

Ernst, J.;

Computer-Aided Control System Design, 1996., Proceedings of the 1996 IEEE International Symposium on , 15-18 Sept. 1996

Pages:346 - 351

[\[Abstract\]](#) [\[PDF Full-Text \(724 KB\)\]](#) IEEE CNF

13 The ABELS system: designing an adaptable interface for linking simulations

Mills-Tettey, G.A.; Johnston, G.; Wilson, L.F.; Kimpel, J.M.; Bin Xie;

Simulation Conference, 2002. Proceedings of the Winter , Volume: 1 , 8-11 Dec. 2002

Pages:832 - 840 vol.1

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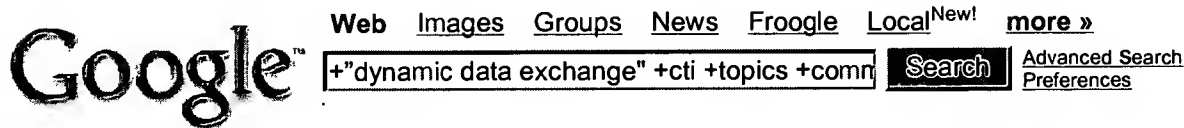
14 External data interface tools for the Particle Beam Optics Laboratory

Gillespie, G.H.; Hill, B.W.; Martono, H.; Moore, J.M.;

Particle Accelerator Conference, 1999. Proceedings of the 1999 , Volume: 4 , 27 March-2 April 1999

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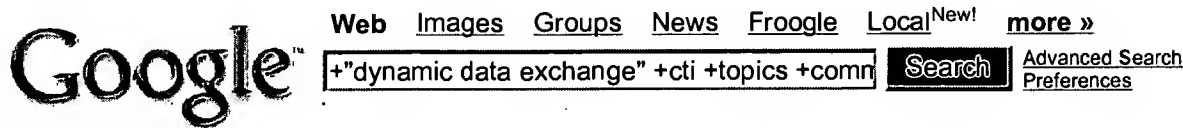
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